

AMENDMENTS TO THE CLAIMS:

Claims 59-84 are canceled without prejudice or disclaimer. Claims 85-106 are added. The following is the status of the claims of the above-captioned application, as amended.

Claims 1-47 (Canceled).

Claim 48 (Previously presented). An isolated protease having an amino acid sequence which comprises amino acids 1-215 of SEQ ID NO: 12 or a fragment thereof that has protease activity.

Claim 49 (Previously presented). The protease of claim 48 having an amino acid sequence which comprises amino acids -62-215 of SEQ ID NO: 12.

Claim 50 (Previously presented). The protease of claim 49 having an amino acid sequence which comprises amino acids -87-215 of SEQ ID NO: 12 or a fragment thereof that has protease activity.

Claim 51 (Previously presented). A detergent composition comprising a protease of claim 48 and a surfactant.

Claim 52 (Previously presented). The detergent composition of claim 51, further comprising at least one further enzyme selected from the group consisting of amylase, cellulase, lipase, oxidase, peroxidase, or another protease.

Claim 53 (Previously presented). An isolated polynucleotide encoding a protease of claim 48.

Claim 54 (Previously presented). The polynucleotide of claim 53, which has a nucleic acid sequence of SEQ ID NO: 11.

Claim 55 (Previously presented). A nucleic acid construct comprising the polynucleotide of claim 54 operably linked to one or more control sequences that direct the production of the protease in a suitable expression host.

Claim 56 (Previously presented). A recombinant expression vector comprising the nucleic acid construct of claim 55, a promoter, and transcriptional and translational stop signals.

Claim 57 (Previously presented). A recombinant host cell comprising the nucleic acid construct of claim 55.

Claim 58 (Previously presented). A method for producing a protease comprising

- (a) cultivating the recombinant host cell of claim 57 under conditions suitable for production of the protease; and
- (b) recovering the protease.

Claims 59-84 (Canceled).

Claim 85 (New). A modified protease, comprising one or more of the following mutations in the amino acid sequence of a parent protease:

- (a) at least one Asn and/or Gly in an Asn-Gly sequence has been modified by substitution, deletion and/or insertion to change or remove said Asn-Gly sequence;
- (b) a substitution or deletion of any Glu and/or Asp;
- (c) a substitution of the amino acid occupying the first and/or second position following any Glu or Asp with Pro;
- (d) a substitution or deletion of any Met;
- (e) a substitution of any Tyr at the surface;

wherein the parent protease has an amino acid sequence comprising amino acids 1-215 of SEQ ID NO: 12 or a fragment thereof that has protease activity.

Claim 86 (New). The modified protease of claim 85, comprising a modification of at least one Asn and/or Gly in an Asn-Gly sequence by substitution, deletion and/or insertion to change or remove said Asn-Gly sequence.

Claim 87 (New). The modified protease of claim 86, comprising a substitution of Asn and/or Gly in an Asn-Gly sequence with A, P, Q, S, T or Y.

Claim 88 (New). The modified protease of claim 87, comprising one or more of the following mutations

N45{*A,Q,S,P,T,Y};
 N45{*A,Q,S,P,T,Y}+G46{*A,Q,S,P,T,Y};
 N45{*A,Q,S,P,T,Y}+N74{*A,Q,S,P,T,Y};
 N45{*A,Q,S,P,T,Y}+N74{*A,Q,S,P,T,Y}+N187{*A,Q,S,P,T,Y};
 N45{*A,Q,S,P,T,Y}+N74{*A,Q,S,P,T,Y}+N187{*A,Q,S,P,T,Y}+N192{*A,Q,S,P,T,Y};
 N45{*A,Q,S,P,T,Y}+N74{*A,Q,S,P,T,Y}+N192{*A,Q,S,P,T,Y};
 N45{*A,Q,S,P,T,Y}+N187{*A,Q,S,P,T,Y};
 N45{*A,Q,S,P,T,Y}+N187{*A,Q,S,P,T,Y}+N192{*A,Q,S,P,T,Y};
 N45{*A,Q,S,P,T,Y}+N192{*A,Q,S,P,T,Y};
 G46{*A,Q,S,P,T,Y};
 N74{*A,Q,S,P,T,Y};
 N74{*A,Q,S,P,T,Y}+G75{*A,Q,S,P,T,Y};
 N74{*A,Q,S,P,T,Y}+N187{*A,Q,S,P,T,Y};
 N74{*A,Q,S,P,T,Y}+N187{*A,Q,S,P,T,Y}+N192{*A,Q,S,P,T,Y};
 N74{*A,Q,S,P,T,Y}+N192{*A,Q,S,P,T,Y};
 G75{*A,Q,S,P,T,Y};
 N187{*A,Q,S,P,T,Y};
 N187{*A,Q,S,P,T,Y}+N192{*A,Q,S,P,T,Y};
 G188{*A,Q,S,P,T,Y};
 N192{*A,Q,S,P,T,Y};
 N192{*A,Q,S,P,T,Y} + G193{*A,Q,S,P,T,Y}; and
 G193{*A,Q,S,P,T,Y}.

Claim 89 (New). The modified protease of claim 85, comprising a substitution or deletion of any Glu and/or Asp.

Claim 90 (New). The modified protease of claim 89, comprising the substitution of any Glu or Asp with Ala.

Claim 91 (New). The modified protease of claim 90, comprising D6A, D69A, E81A, and/or D135A.

Claim 92 (New). The modified protease of claim 85, comprising a substitution of the amino acid occupying the first and/or second position following any Glu or Asp with Pro.

Claim 93 (New). The modified protease of claim 85, comprising a substitution or deletion of any Met.

Claim 94 (New). The modified protease of claim 93, comprising a substitution of methionine with A, E, I, K, L, N, Q, or S.

Claim 95 (New). The modified protease of claim 94, comprising one or more of M67{*S,A,N,Q,K}; M79{*S,A,N,Q,K}; and M137{*S,A,N,Q,K}.

Claim 96 (New). The modified protease of claim 85, comprising a substitution of any Tyr at the surface.

Claim 97 (New). The modified protease of claim 96, comprising a substitution of Tyr with Phe or Trp.

Claim 98 (New). The modified protease of claim 96, comprising a substitution of Tyr at position 19, 24, 50, 57, 64, 83, 88, and/or 132.

Claim 99 (New). The modified protease of claim 98, comprising

Y19{F,W}

Y24{F,W}

Y50{F,W}

Y57{F,W}

Y64{F,W}

Y83{F,W}

Y88{F,W} and/or

Y132{F,W}.

Claim 100 (New). A detergent composition comprising a modified protease of claim 85 and a surfactant.

Claim 101 (New). The detergent composition of claim 100, further comprising at least one further enzyme selected from the group consisting of amylase, cellulase, lipase, oxidase, peroxidase, or another protease.

Claim 102 (New). An isolated polynucleotide encoding a modified protease of claim 85.

Claim 103 (New). A nucleic acid construct comprising the polynucleotide of claim 102 operably linked to one or more control sequences that direct the production of the protease in a suitable expression host.

Claim 104 (New). A recombinant expression vector comprising the nucleic acid construct of claim 103, a promoter, and transcriptional and translational stop signals.

Claim 105 (New). A recombinant host cell comprising the nucleic acid construct of claim 103.

Claim 106 (New). A method for producing a modified protease comprising

- (a) cultivating the recombinant host cell of claim 105 under conditions suitable for production of the modified protease; and
- (b) recovering the modified protease.